

Title (en)  
Low profile connector locking mechanism

Title (de)  
Verbinderarretiermechanismus mit niedrigem Profil

Title (fr)  
Mécanisme de verrouillage de connecteur à profil bas

Publication  
**EP 2884596 B1 20171227 (EN)**

Application  
**EP 14196319 A 20141204**

Priority  
US 201314101479 A 20131210

Abstract (en)  
[origin: EP2884596A1] A latching mechanism releasably secures a first connector to an interlocking second connector, such as a first and second electrical connector. The first connector defines a lock tab (200). The second mating connector includes a lock arm (196) defining a lock nib (224) configured to engage the lock tab (200) and an outwardly extending stop (226). The lock arm (196) is connected to the second connector by a resilient u-shaped strap (228). A transverse hold down beam (232) is connected to the second connector and is configured to engage the stop (226) when a separating force (234) is applied between the first and second connector and increase the hold-down force (230) on the lock nib (224). The second connector further comprises a shoulder (238) that is coplanar with the u-shaped strap (228) and configured to engage the u-shaped strap (228) when the separating longitudinal force applied between the first connector and the second connector increases, further increasing the hold-down force (230) on the lock nib (224).

IPC 8 full level  
**H01R 13/627** (2006.01); **H01R 24/28** (2011.01); **H01R 103/00** (2006.01)

CPC (source: CN EP US)  
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